

A quantitative method for detecting meat contamination based on specific polypeptides

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Table S1 Specific peptides for beef, pork, lamb, chicken, duck

Annotated Sequence	Theo. MH+ [Da]
Beef	
[R].ALPAAAIEGPAYNR.[A]	1413.748489
[R].TPVDPPGKPEVIDVSK.[S]	1677.905777
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[K].VGLGEATAVPGTVKPEDK.[L]	1767.948705
[K].GDSGQYTCYAVNEVGK.[D]	1747.75919
[R].NAQLDDQANYNVSLTNHR.[G]	2072.974419
[K].AIGIVATTGVGTEIGK.[I]	1486.847534
[R].YSIQNTDSSSILTIPQVTR.[H]	2123.097888
[K].LVNELTEFAK.[T]	1163.630665
[R].VAAVSSAGAGPPAVLER.[L]	1551.848931
[R].YGISGSDQTLTIR.[Q]	1410.722334
[R].KVPQVSTPTLVEVSR.[S]	1639.937746
[R].TSDYEQSETSRPALAQPVPEKPVER.[K]	2814.390441
[K].TLAFLFSGTPTGDSEASGGTK.[K]	2043.986941
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[K].EFTPVLQADFQK.[V]	1422.726357
[R].VLQELVNDGADDRPAGTR.[S]	1925.967543
[R].DPCDPPGRPEPIIVTR.[N]	1818.916693
[K].TVTNLACVVTGLQQGK.[T]	1688.899981
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[K].TLALLFSGPASGEAEGGPK.[K]	1801.933055
[K].AGEDVHALVPFK.[G]	1282.679013

[R].KDVASTEWSPLSTTSK.[K]	1736.87012
[R].YIIEAVNVCGR.[A]	1293.661983
[R].ILDQYLYK.[E]	1055.577173
[K].AVNAAGVSKPSATVGPVIVK.[D]	1865.085473
[K].EENEVLAPAPAPPPEEPNKEK.[E]	2285.129582
[R].IPADVDPLAITSSLSSDGVLTVNGPR.[K]	2594.367186
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[K].EEVILQCEISK.[A]	1347.682443
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[R].NAAGVFSEPSESTGAITAR.[D]	1864.903545
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[K].EPPVLIVTPLEDQQVFVGDR.[V]	2251.196874
[R].ILTVEGLTEGSLYEFK.[I]	1798.947308
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[K].DVASTEWSPLSTTSK.[K]	1608.775157
[K].IQGTLEDQIISANPLLEAFGNAK.[T]	2442.28748
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[K].LKPDPNTLCDEFK.[A]	1576.76757
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[R].ISFEELLK.[V]	978.5506243
[R].TLEDQVNELK.[S]	1188.610658
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[K].ELVIPPEVDLSEIPGAQVAVR.[I]	2231.228174
[R].ETTSTTWHVVSQAVAR.[T]	1772.892587
[K].DFCDSCAFNIDVEAPR.[Q]	1915.794924
[R].SGQYDGLVELATICALCNDSSLDFNETK.[G]	3120.413621
[K].AAAAPAPAPAPPPAPEPSKEPEFDPSK.[I]	2637.319508
[R].EPVPVPIPAALLR.[E]	1371.835848
[R].ELLLPVLIK.[E]	1037.696895
[R].AAAEGGSSSVFSMFDQTQIQEFK.[E]	2465.12893
[K].YDGGSQVTNYIVLK.[R]	1556.795499
[R].GKPIPDIVWSK.[D]	1239.709584
[K].LNQNLNDVLISLEK.[Q]	1612.890462
[R].ILESGBPVSVCVK.[K]	1335.697699
[K].DLQTEASLDTVLCYDPAAAK.[W]	2181.03799
[R].VAAENAAGVGEPSEPSVFSR.[A]	1973.956309
[R].AVVEGFQPISVVWLK.[D]	1671.946854
[R].AGTPFVPELTSGLELLR.[L]	1799.990176
[R].APVPASELLASGILSSSQFEQLK.[D]	2372.270767
[R].VSGSAPISVGWFQDGNEIVSGPK.[C]	2331.161551
[K].DPASGICTLLYDSAPSGR.[F]	1879.885453
[K].EYLPIAGLAEFCK.[A]	1510.761028
[K].IDAAEEEKYDMEIR.[V]	1711.784342
[RK].DILSQLGIK.[K]	986.5880724
[R].AALGESTLGETTLGETSLGDTTLGR.[T]	2450.225667
[R].YLLDEYSK.[K]	1101.546267
[R].LYQGAGGPGAGGFGAQGPK.[G]	1689.834344

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[K].HGEIESNVNLQVDER.[K]	1738.835466
[K].ALDGSALYTGSALDFVR.[N]	1755.89119
[R].STVSLIWSAPVYDGGSK.[V]	1766.895941
[R].VSAENAAGVGEPSPATLYYK.[A]	2023.997111
[K].IHKPPPVEPPPTPIAAPVTVPVVGK.[K]	2513.510544
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Pork

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[K].VLDSPGPPAGVTVR.[D]	1364.75324
[K].VDFPQDQLSTLTGR.[I]	1576.796561
[K].EAVLGLWGK.[V]	972.551293
[R].ISSNPYSTVTVD DIR.[A]	1753.860284
[K].AVNAAGVSRPSATVGPVTVK.[D]	1881.055235
[K].TLAFLFSGAQTGAEAGGTK.[K]	1955.970897
[R].ELQAFENIEDEIK.[L]	1577.769343
[K].GQTVQQVYNAVGALAK.[A]	1646.886045
[K].VGLGEATSVPGTVKPEDK.[L]	1783.943619
[K].DVYVPDDKEEFVK.[A]	1582.76353
[R].VCAENENGEGTPSEITAVAK.[D]	2075.954989
[K].LPADTEVVCAPPTAYIDFAR.[Q]	2206.084881
[K].DQGSYEDFVEGLR.[V]	1514.675777
[K].LLSNLFANYAGADTPVEK.[G]	1922.985818
[K].LTCVVESSVLC AK.[E]	1465.738912
[R].IPVQEEVIEVK.[V]	1282.725294
[K].FGLSKPSEPSEPTITK.[E]	1717.900692
[K].ITGLQEGNTYEF R.[V]	1527.743797

[R].VLDSPSAPVNLNVR.[E]	1480.811818
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[K].KVPQVSTPTLVEVAR.[K]	1623.942832
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[K].TIEEYAICPDLK.[V]	1451.708658
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[R].ADISSFVIESAER.[G]	1423.706349
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[R].DEQDTYAINSYTR.[S]	1575.692156
[K].GCFKPIVAGDQNVEYK.[G]	1824.894895
[K].LIQGNEYLFR.[V]	1252.668448
[R].INLDGLGPDNTVTVIAGNK.[L]	1911.018181
[K].ESHDSASNVYTLELR.[I]	1720.813668
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[R].LIGPNCPGVINPGECK.[I]	1724.845837
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[R].QLDEKDTLVSQLSR.[G]	1631.85989
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[R].APLQVAVLSPTGVAEPVEVR.[D]	2032.143716
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[R].SPSWDPFR.[D]	991.4632063
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[K].SEDYALPVYVDR.[R]	1426.684886
[K].VTNPAGEDVASIFLR.[V]	1588.832947
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[R].DADIQNFVSFISK.[D]	1483.742735
[R].LSCAEDYLSLVLR.[L]	1652.831233
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[K].FASDVFFSTNFK.[D]	1262.605179
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[K].DTVGVLTGTSCILECK.[V]	1651.802969
[R].LATLAALDALAR.[S]	1198.715398
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[K].IPGTGALASAAAASVSGSK.[A]	1528.832947
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[R].ECSAVLTVLEPAR.[I]	1444.74644
[-].APPSVFAEVPQAQPVLVFK.[L]	2024.121524
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[K].FDQFFGEGCAPGSQR.[N]	1702.72783
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[K].VVKPLDVPEGSLEP.[D]	1537.858433
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[K].FTCITDTPEIVLAK.[N]	1607.834921
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[K].YVLTIENTGVGEPK.[S]	1418.752571
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[K].GDVTAQVALQPALK.[F]	1410.795105
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lamb

[R].VNAYNLSDNIYK.[H]	1413.70087
[RK].AAVQQLQAEGLSR.[F]	1467.791416
[K].DDPHACYATVFDK.[L]	1538.658019
[K].GTNVLGDAIPITAAK.[A]	1440.80567
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[R].GEAEVGAEALGR.[E]	1158.574941
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[K].SLHTLFGDELCK.[V]	1419.693677
[R].VVSALPIQHQDWTGGK.[E]	1735.912594
[K].EISHDPSLKPWTASYDPGSAK.[T]	2286.103702
[R].VTVPNVPIR.[F]	994.6043912

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[R].AVNWAGVGELSAPSK.[L]	1485.769618
[R].AISESGVALTSALVK.[R]	1445.820985
[R].LAAQSGLYESEEL.[-]	1409.679466
[R].SSFFVNGLTLGGQK.[C]	1454.763805
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[K].NLEYVATSIHEAVTK.[I]	1674.869726
[R].STHPHFVR.[C]	980.5060742
[K].TPGAMEHELVLHQLR.[C]	1730.900649
[K].NLVHIITHGEEKD.[-]	1504.775432
[R].IQLVEEELDRAQER.[L]	1727.892252
[K].VKLEQHVDDLEGSLEQEKK.[V]	2224.145566
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[K].ILDDLTIAESNCPR.[G]	1616.794847
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chicken

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[K].YTLADADVPQFIQAR.[V]	1636.832947
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[K].EYTITPEADLSDIPGGQIAVR.[I]	2245.134667
[K].GLCDELALVDVLEDK.[L]	1688.841128
[K].IFTVEGSLCSGK.[G]	1297.645664
[K].NLQEEIDALESR.[V]	1416.696513
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[K].GGVNECSAYLFVR.[D]	1471.699825
[R].NNLLLA EVEELR.[A]	1412.774369
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[K].LLDAAISCAEK.[I]	1190.60855
[R].ILDDPSPQPGEER.[L]	1549.749277
[R].ITAEDLYEAK.[I]	1152.578295
[K].SLSLGPALIYSAK.[F]	1319.756928
[R].DVMLEELSLLTNK.[G]	1504.792722
[R].AEGAASSNVFSMFDQSQIQEFK.[E]	2421.102715
[R].NITYLPSGQSVLLQLPQ.[-]	1871.027289
[K].VIFPAPPNNIPQGAPVK.[Q]	1856.04288
[K].VENSVGEAASSSLLTVQER.[K]	1975.993089
[K].DFNMPLSISR.[L]	1179.582669
[K].FISPALTCIEK.[Q]	1278.676236
[R].IVAFADAAVDPIDFPIAPAYAVPK.[I]	2471.322074
[K].DLLASVIGPEK.[S]	1141.646315
[K].LEAPDADEL PK.[L]	1197.599759
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[K].TIIAQNPAAEPLK.[N]	1365.773641
[K].YGISFIDGLATLK.[V]	1397.767493
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[K].MGLVDQLVDPLGPGVK.[T]	1637.893104
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[K].QQLLADPLVPPQLTIK.[D]	1774.047297
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[K].NAAGLFSQPSETTG PVTVK.[D]	1903.975982
[R].AETYPDSSCLVIDTAER.[E]	1926.874948

[K].EGNICTLSCQFSIPNAK.[S]

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[R].VLAVNEYGVGLPAETPDPIK.[V]

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